

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012623\
 Data File : VU052819.D
 Acq On : 26 Jan 2023 16:30
 Operator : JC/MD
 Sample : 01314-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 A44Q4

Quant Time: Jan 27 04:34:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM012623WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jan 27 04:23:26 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	284180	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	275694	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	152216	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	80904	39.554	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.100%
7) Chloroethane-d5	1.909	69	71233	42.266	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	84.540%
11) 1,1-Dichloroethene-d2	2.562	63	159412	39.185	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.360%
21) 2-Butanone-d5	4.623	46	111910	88.568	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	88.570%
24) Chloroform-d	5.057	84	180593	41.371	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.740%
26) 1,2-Dichloroethane-d4	5.694	65	120805	43.342	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.680%
32) Benzene-d6	5.719	84	361457	42.914	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.820%
36) 1,2-Dichloropropane-d6	6.684	67	108198	43.799	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.600%
41) Toluene-d8	7.893	98	332107	43.301	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.600%
43) trans-1,3-Dichloroprop...	8.176	79	54540	44.050	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.100%
47) 2-Hexanone-d5	8.639	63	83498	96.197	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.200%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	164584	45.094	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.180%
66) 1,2-Dichlorobenzene-d4	12.188	152	133232	45.078	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.160%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	87162	35.899	ug/L	98
8) Chloroethane	1.932	64	74476	48.837	ug/L	99
12) 1,1-Dichloroethene	2.575	96	64372	30.620	ug/L	92
14) Carbon disulfide	2.787	76	299328	47.143	ug/L	98
15) Methyl Acetate	2.944	43	128734	61.913	ug/L	99
16) Methylene chloride	3.041	84	72996	29.189	ug/L	96
18) Methyl tert-butyl Ether	3.359	73	282329	42.263	ug/L	99
19) 1,1-Dichloroethane	3.864	63	81394	20.428	ug/L	99
20) cis-1,2-Dichloroethene	4.658	96	48079	19.821	ug/L	97
27) 1,2-Dichloroethane	5.787	62	202176	57.096	ug/L	100
30) 1,1,1-Trichloroethane	5.311	97	149330	36.824	ug/L	99
34) Trichloroethene	6.536	95	155977	65.391	ug/L	96
37) 1,2-Dichloropropane	6.787	63	53499	23.187	ug/L	99
40) 4-Methyl-2-pentanone	7.793	43	137634	50.633	ug/L	99
42) Toluene	7.964	91	280562	29.170	ug/L	99
44) trans-1,3-Dichloropropene	8.205	75	52225	14.704	ug/L	99
45) 1,1,2-Trichloroethane	8.394	97	94382	40.002	ug/L	97
46) Tetrachloroethene	8.549	164	66686	32.467	ug/L	98
48) 2-Hexanone	8.690	43	109876	47.781	ug/L	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

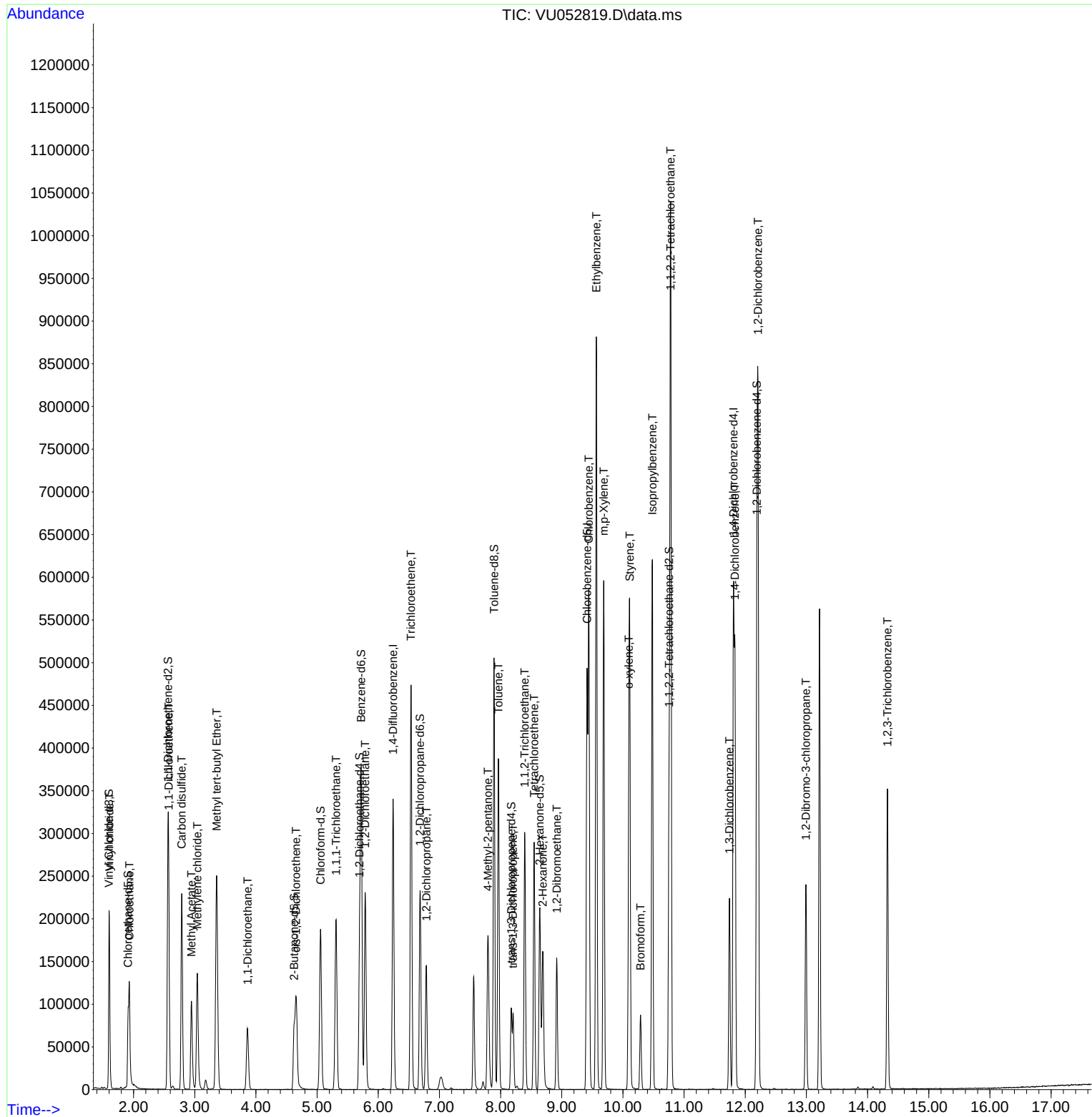
50) 1,2-Dibromoethane	8.918	107	99230	39.076	ug/L	100
51) Chlorobenzene	9.443	112	315659	47.703	ug/L	98
52) Ethylbenzene	9.565	91	616631	59.992	ug/L	99
53) m,p-Xylene	9.687	106	171864	41.302	ug/L	100
54) o-xylene	10.095	106	79900	20.114	ug/L	99
55) Styrene	10.111	104	223087	32.727	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.780	83	256643	67.213	ug/L	100
59) Bromoform	10.288	173	41721	20.002	ug/L	100
61) Isopropylbenzene	10.481	105	405496	41.247	ug/L	100
64) 1,3-Dichlorobenzene	11.742	146	94697	19.092	ug/L	99
65) 1,4-Dichlorobenzene	11.832	146	199874	38.926	ug/L	100
67) 1,2-Dichlorobenzene	12.208	146	313134	62.417	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.992	75	61806	73.027	ug/L	97
72) 1,2,3-Trichlorobenzene	14.327	180	114656	35.241	ug/L	98

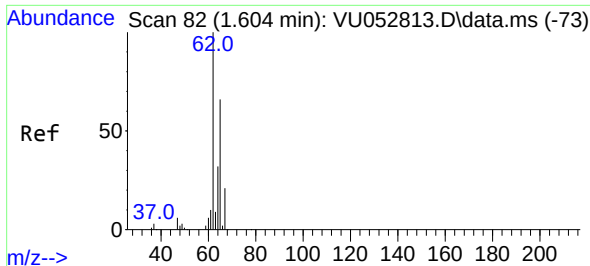
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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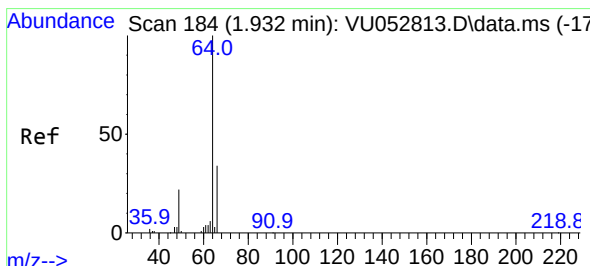
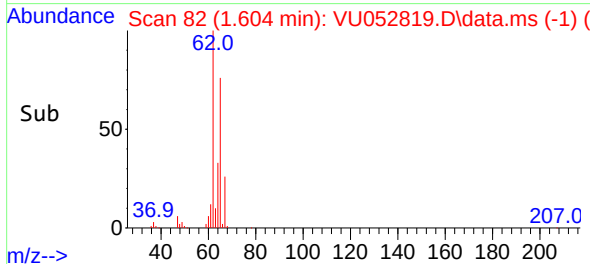
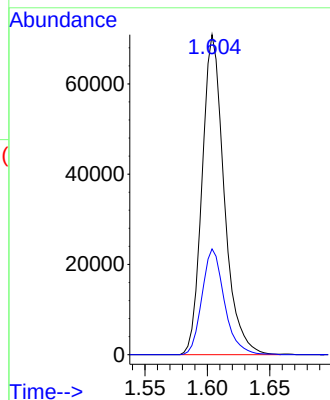
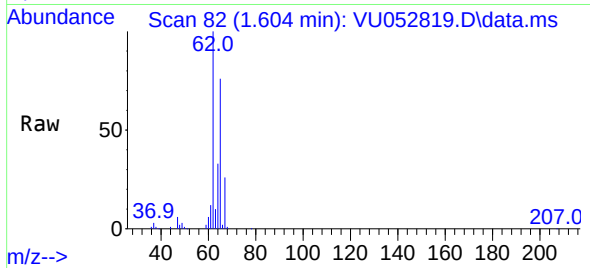




#5
 Vinyl chloride
 Concen: 35.899 ug/L
 RT: 1.604 min Scan# 82
 Delta R.T. -0.000 min
 Lab File: VU052819.D
 Acq: 26 Jan 2023 16:30

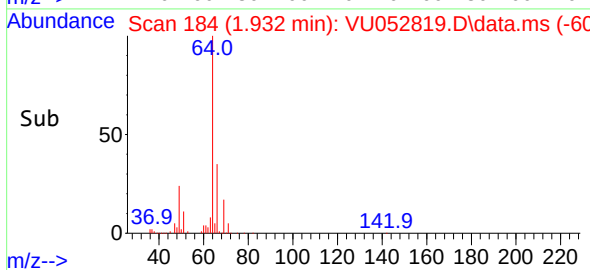
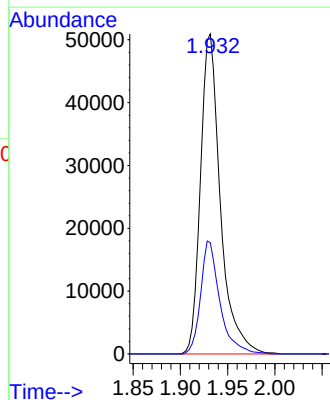
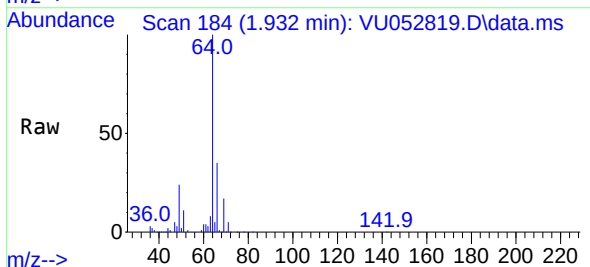
Instrument :
 MSVOA_U
 ClientSampleId :
 A44Q4

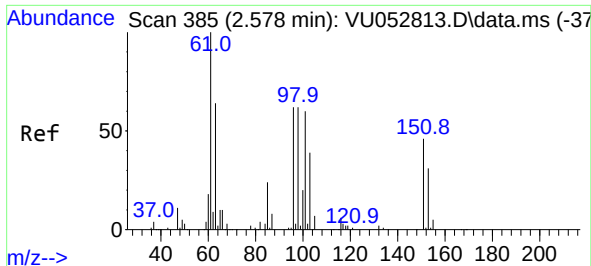
Tgt Ion: 62 Resp: 87162
 Ion Ratio Lower Upper
 62 100
 64 33.0 22.4 41.6



#8
 Chloroethane
 Concen: 48.837 ug/L
 RT: 1.932 min Scan# 184
 Delta R.T. -0.000 min
 Lab File: VU052819.D
 Acq: 26 Jan 2023 16:30

Tgt Ion: 64 Resp: 74476
 Ion Ratio Lower Upper
 64 100
 66 34.8 24.1 44.7





#12

1,1-Dichloroethene

Concen: 30.620 ug/L

RT: 2.575 min Scan# 3

Delta R.T. -0.003 min

Lab File: VU052819.D

Acq: 26 Jan 2023 16:30

Instrument :

MSVOA_U

ClientSampleId :

A44Q4

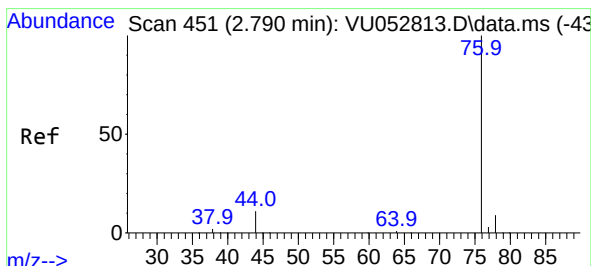
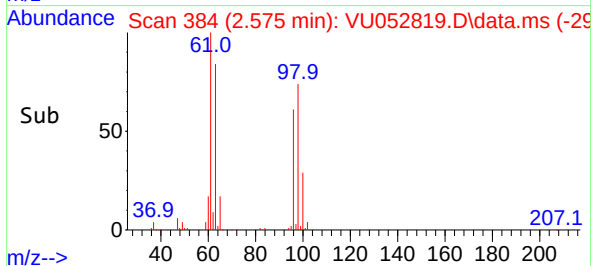
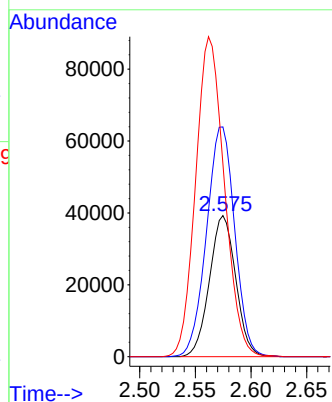
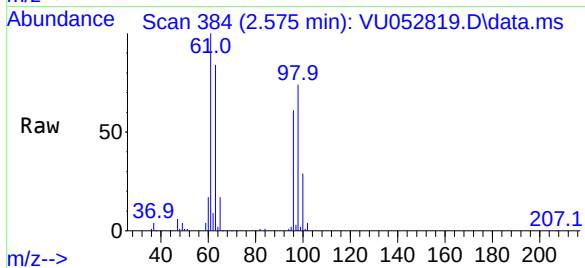
Tgt Ion: 96 Resp: 64372

Ion Ratio Lower Upper

96 100

61 162.8 114.3 212.3

63 136.6 80.6 149.6



#14

Carbon disulfide

Concen: 47.143 ug/L

RT: 2.787 min Scan# 450

Delta R.T. -0.004 min

Lab File: VU052819.D

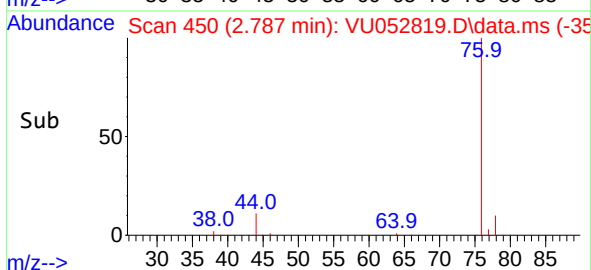
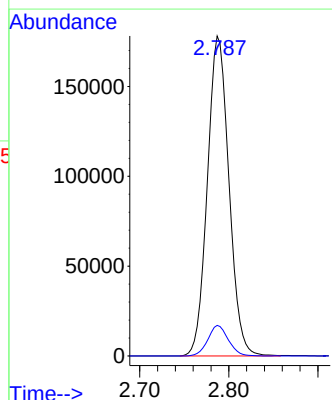
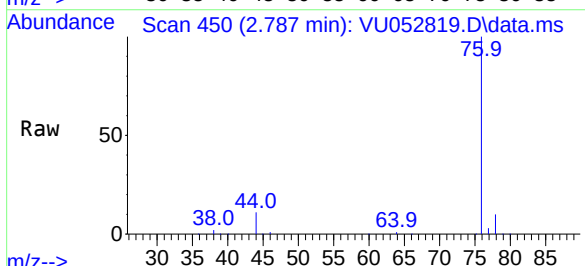
Acq: 26 Jan 2023 16:30

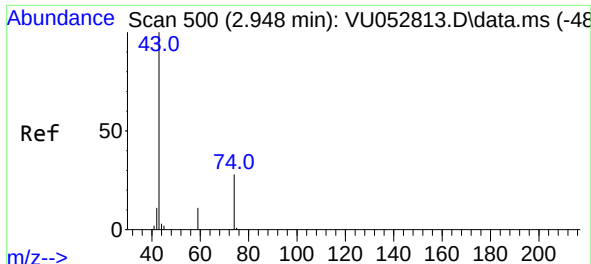
Tgt Ion: 76 Resp: 299328

Ion Ratio Lower Upper

76 100

78 9.6 7.1 10.7

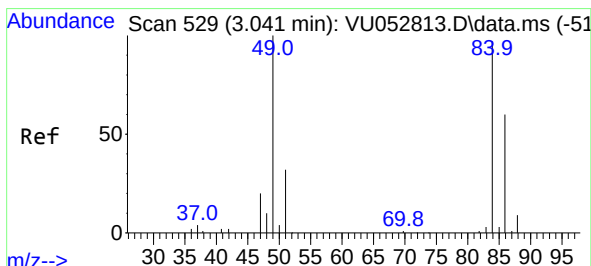
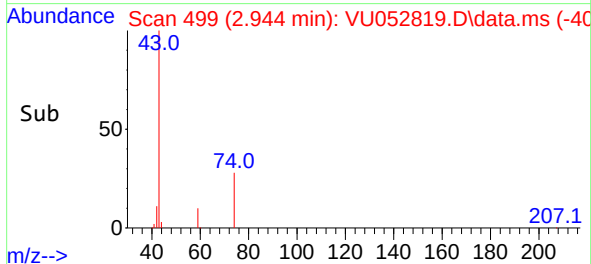
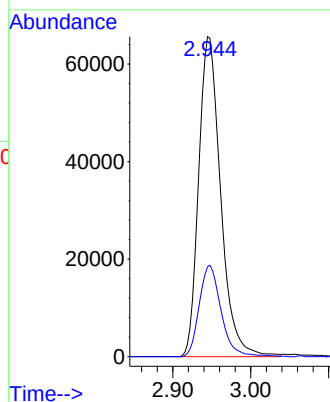
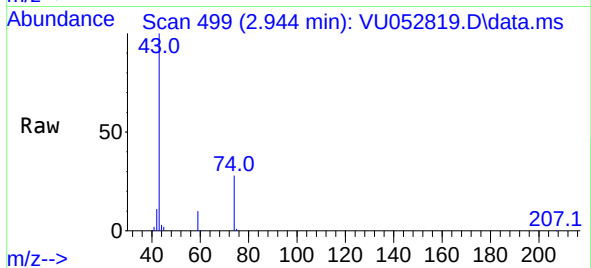




#15
Methyl Acetate
Concen: 61.913 ug/L
RT: 2.944 min Scan# 499
Delta R.T. -0.004 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

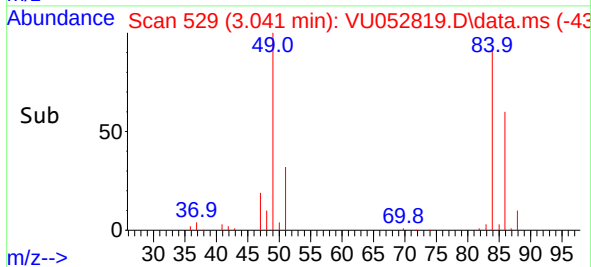
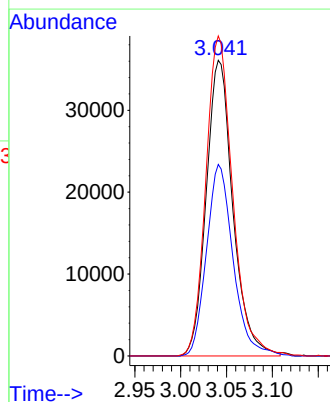
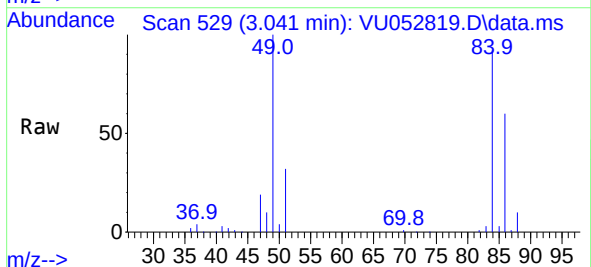
Instrument :
MSVOA_U
ClientSampleId :
A44Q4

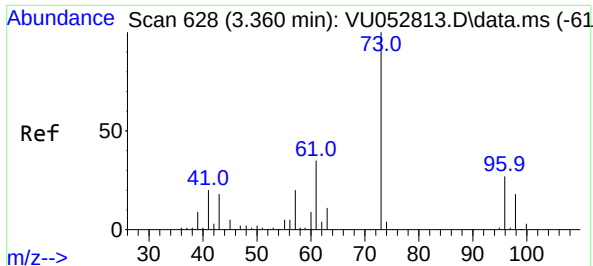
Tgt Ion: 43 Resp: 128734
Ion Ratio Lower Upper
43 100
74 28.1 22.0 33.0



#16
Methylene chloride
Concen: 29.189 ug/L
RT: 3.041 min Scan# 529
Delta R.T. -0.000 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

Tgt Ion: 84 Resp: 72996
Ion Ratio Lower Upper
84 100
86 64.8 43.4 80.6
49 108.2 72.4 134.5

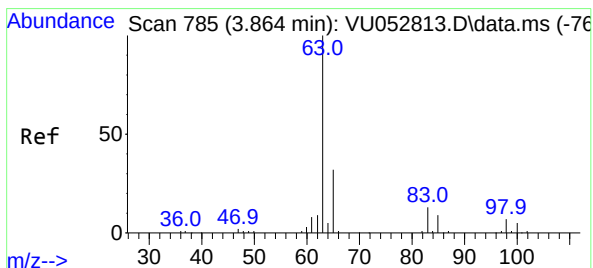
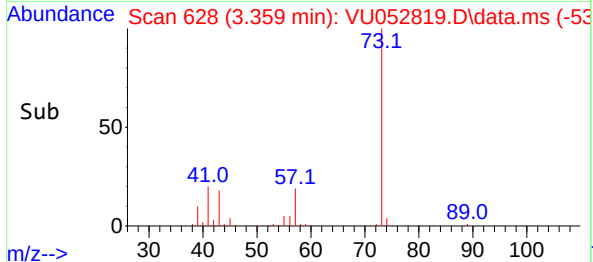
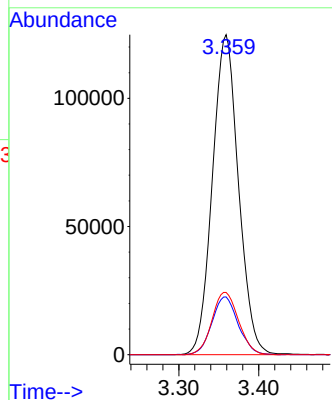
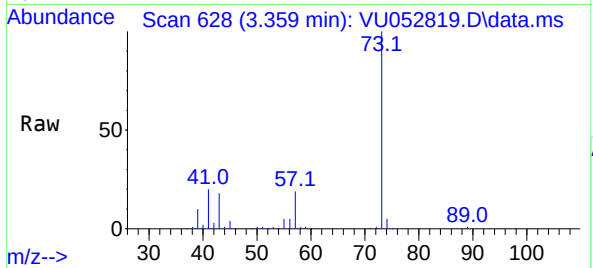




#18
Methyl tert-butyl Ether
Concen: 42.263 ug/L
RT: 3.359 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

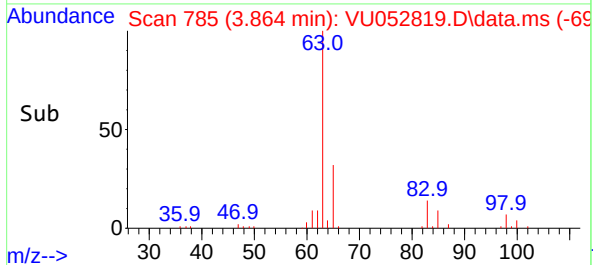
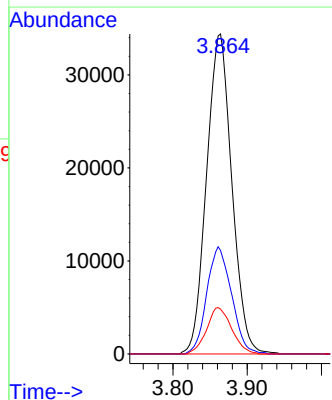
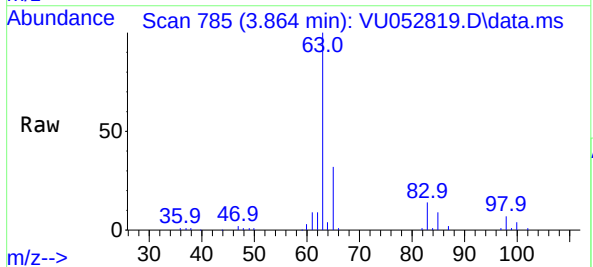
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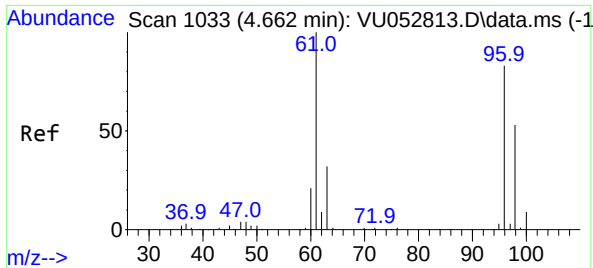
Tgt Ion: 73 Resp: 282329
Ion Ratio Lower Upper
73 100
43 18.3 14.2 21.2
57 19.9 16.3 24.5



#19
1,1-Dichloroethane
Concen: 20.428 ug/L
RT: 3.864 min Scan# 785
Delta R.T. -0.000 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

Tgt Ion: 63 Resp: 81394
Ion Ratio Lower Upper
63 100
65 32.4 22.4 41.6
83 14.0 9.2 17.2

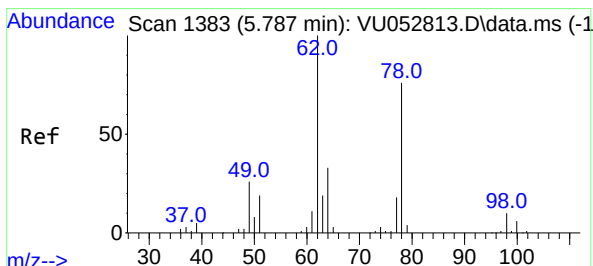
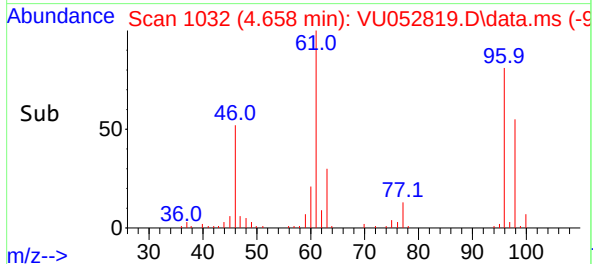
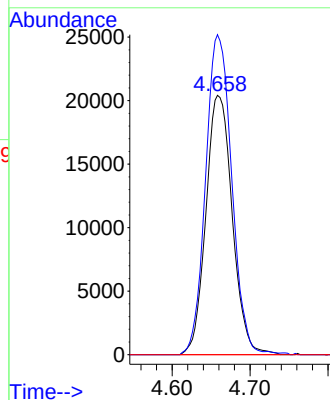
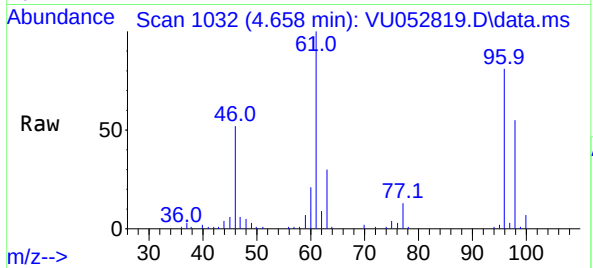




#20
cis-1,2-Dichloroethene
Concen: 19.821 ug/L
RT: 4.658 min Scan# 1032
Delta R.T. -0.004 min
Lab File: VU052819.D
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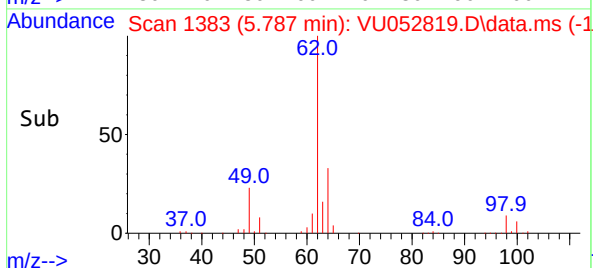
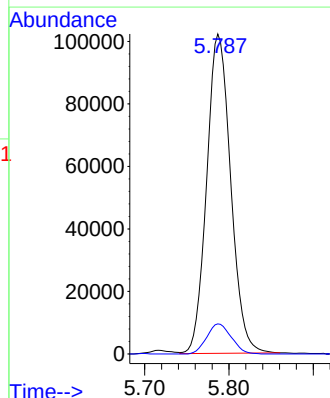
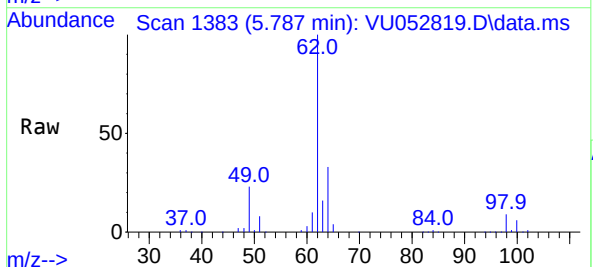
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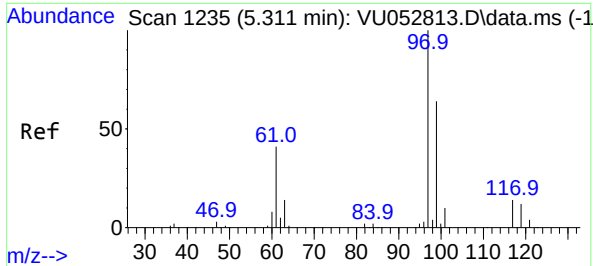
Tgt Ion: 96 Resp: 48079
Ion Ratio Lower Upper
96 100
61 123.4 84.1 156.1
68 0.0 0.0 0.0



#27
1,2-Dichloroethane
Concen: 57.096 ug/L
RT: 5.787 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

Tgt Ion: 62 Resp: 202176
Ion Ratio Lower Upper
62 100
98 9.4 7.6 11.4



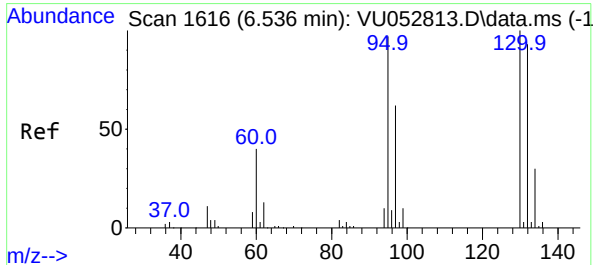
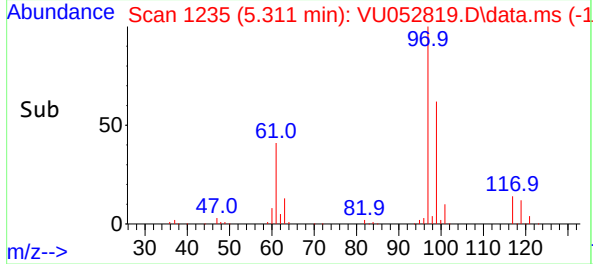
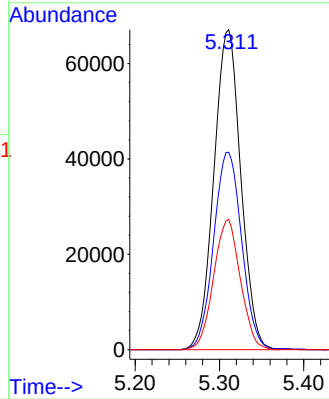
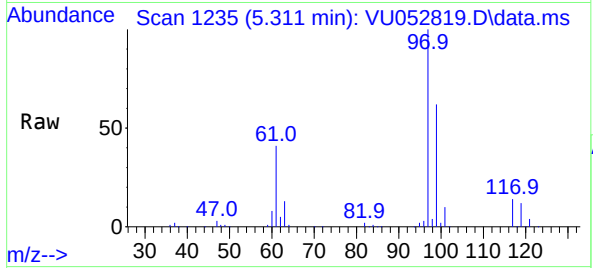


#30
1,1,1-Trichloroethane
Concen: 36.824 ug/L
RT: 5.311 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

Instrument :
MSVOA_U
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Tgt Ion: 97 Resp: 149330

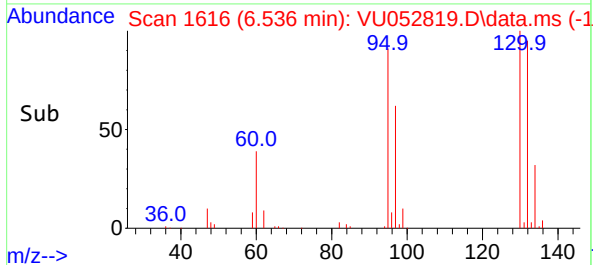
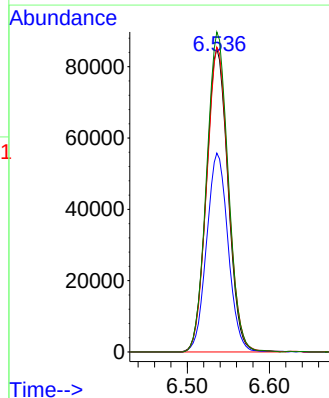
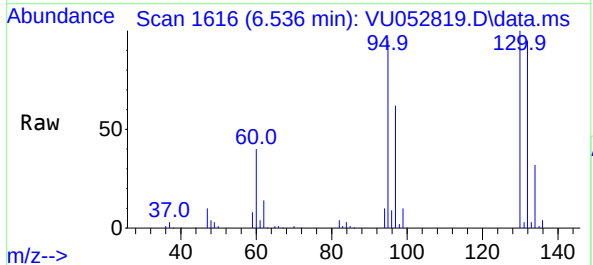
Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.4	77.0
61	40.3	33.0	49.6

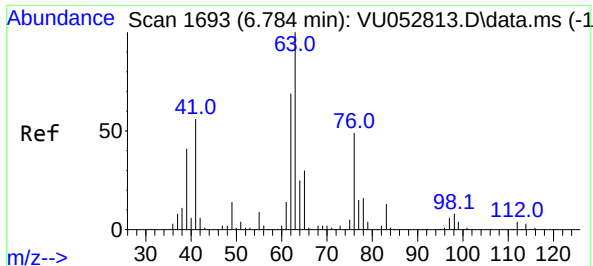


#34
Trichloroethene
Concen: 65.391 ug/L
RT: 6.536 min Scan# 1616
Delta R.T. -0.000 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

Tgt Ion: 95 Resp: 155977

Ion	Ratio	Lower	Upper
95	100		
97	65.5	44.5	82.7
132	100.4	66.8	124.0
130	105.4	71.9	133.5

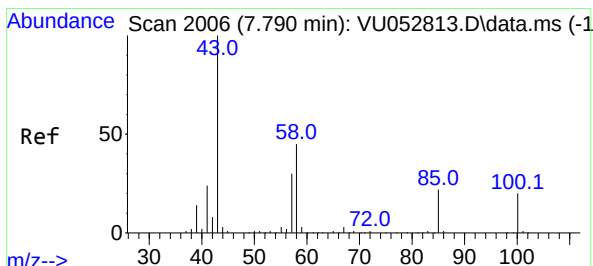
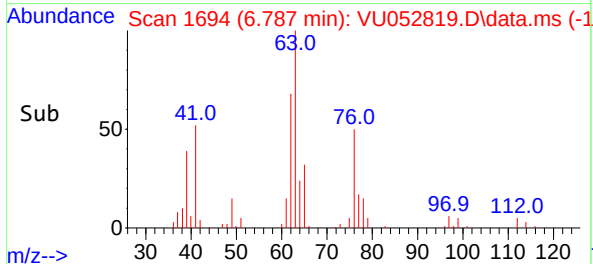
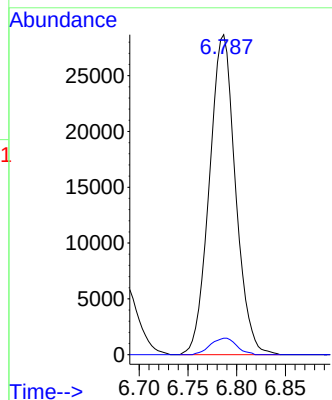
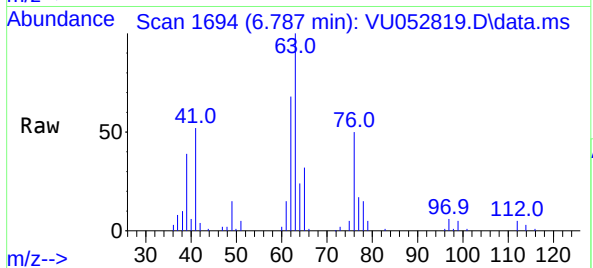




#37
1,2-Dichloropropane
Concen: 23.187 ug/L
RT: 6.787 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

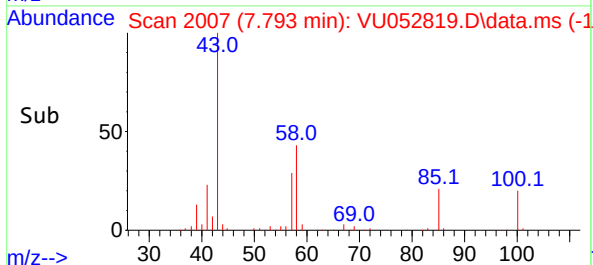
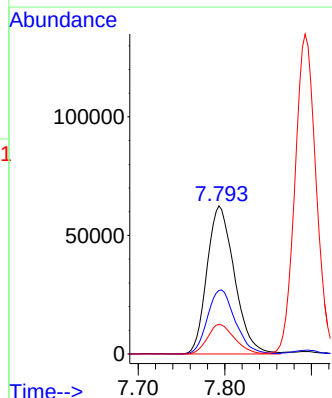
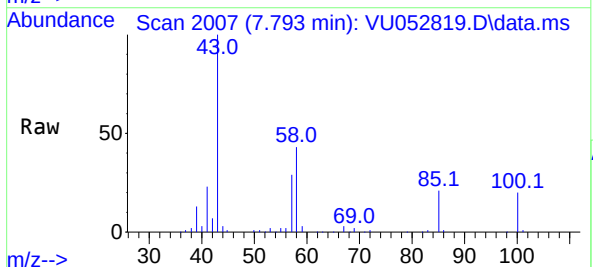
Instrument :
MSVOA_U
ClientSampleId :
A44Q4

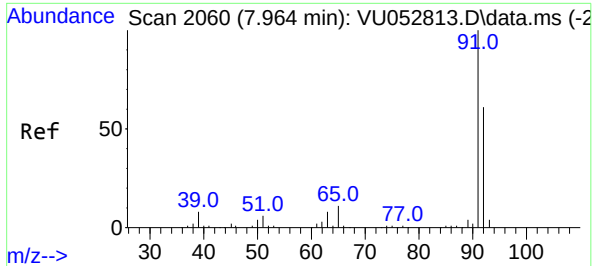
Tgt Ion: 63 Resp: 53499
Ion Ratio Lower Upper
63 100
112 5.2 3.8 5.8



#40
4-Methyl-2-pentanone
Concen: 50.633 ug/L
RT: 7.793 min Scan# 2007
Delta R.T. 0.003 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

Tgt Ion: 43 Resp: 137634
Ion Ratio Lower Upper
43 100
58 43.6 35.4 53.2
100 19.7 16.0 24.0





#42

Toluene

Concen: 29.170 ug/L

RT: 7.964 min Scan# 2060

Delta R.T. -0.000 min

Lab File: VU052819.D

Acq: 26 Jan 2023 16:30

Instrument :

MSVOA_U

ClientSampleId :

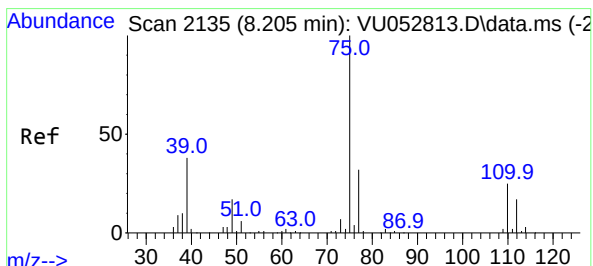
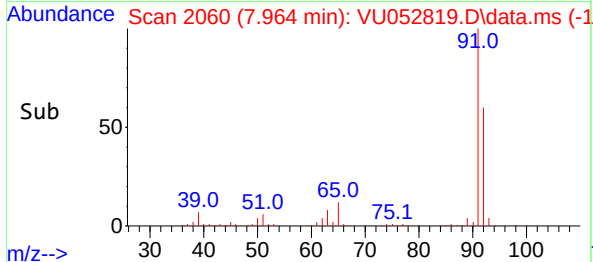
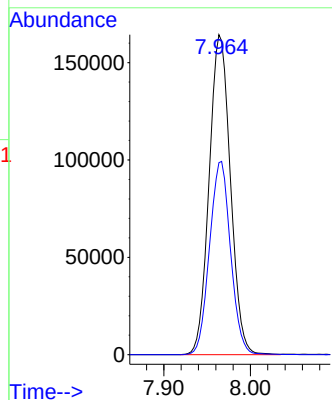
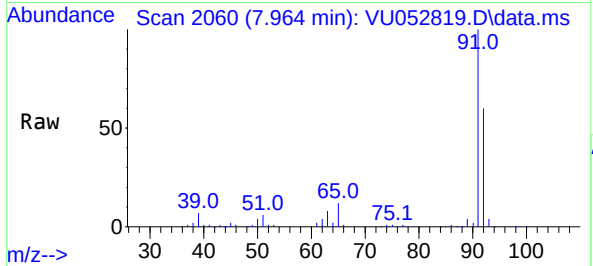
A44Q4

Tgt Ion: 91 Resp: 280562

Ion Ratio Lower Upper

91 100

92 60.0 42.6 79.0



#44

trans-1,3-Dichloropropene

Concen: 14.704 ug/L

RT: 8.205 min Scan# 2135

Delta R.T. -0.000 min

Lab File: VU052819.D

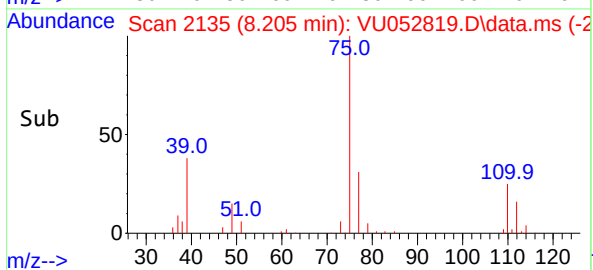
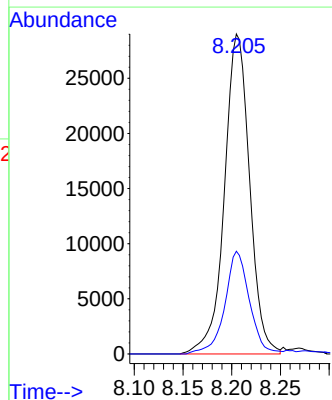
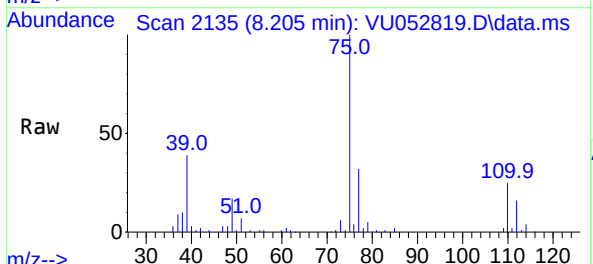
Acq: 26 Jan 2023 16:30

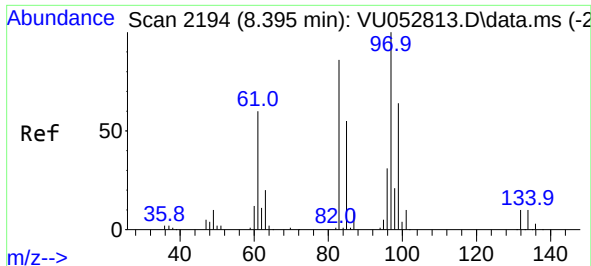
Tgt Ion: 75 Resp: 52225

Ion Ratio Lower Upper

75 100

77 32.1 22.3 41.3



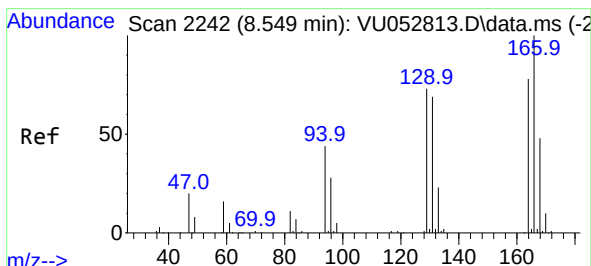
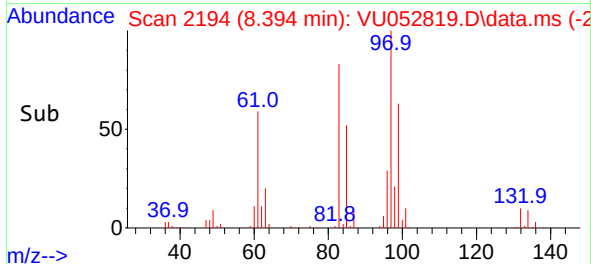
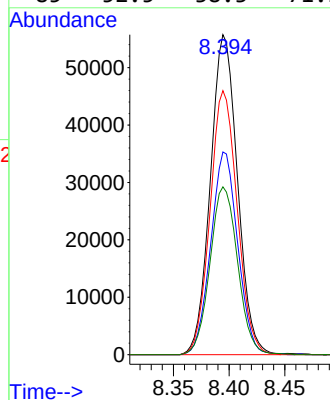
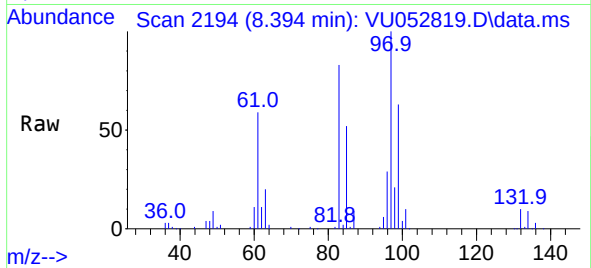


#45
1,1,2-Trichloroethane
Concen: 40.002 ug/L
RT: 8.394 min Scan# 2194
Delta R.T. -0.000 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

Instrument :
MSVOA_U
ClientSampleId :
A44Q4

Tgt Ion: 97 Resp: 94382

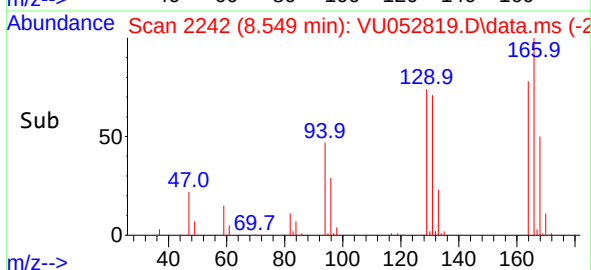
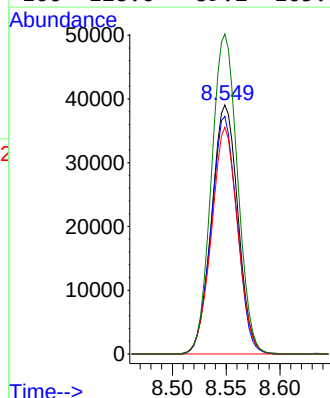
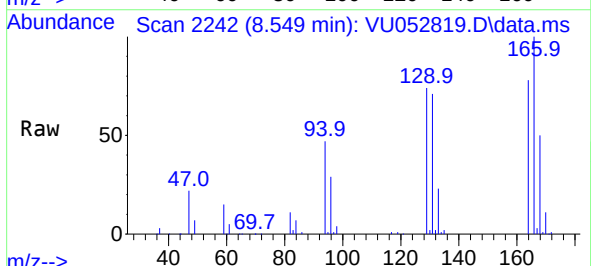
Ion	Ratio	Lower	Upper
97	100		
99	63.3	44.7	83.1
83	82.5	60.3	112.1
85	52.5	38.3	71.1

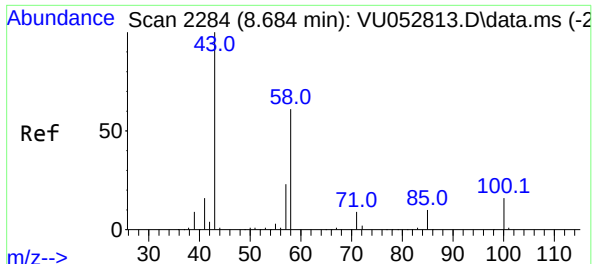


#46
Tetrachloroethene
Concen: 32.467 ug/L
RT: 8.549 min Scan# 2242
Delta R.T. -0.000 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

Tgt Ion:164 Resp: 66686

Ion	Ratio	Lower	Upper
164	100		
129	95.5	64.8	120.3
131	91.0	61.2	113.6
166	128.6	89.2	165.8





#48

2-Hexanone

Concen: 47.781 ug/L

RT: 8.690 min Scan# 21

Delta R.T. 0.006 min

Lab File: VU052819.D

Acq: 26 Jan 2023 16:30

Instrument :

MSVOA_U

ClientSampleId :

A44Q4

Tgt Ion: 43 Resp: 109876

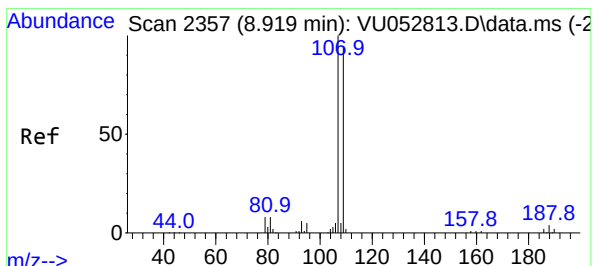
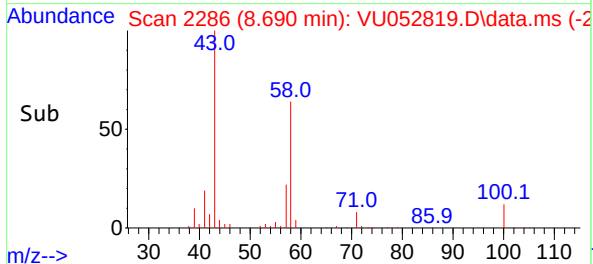
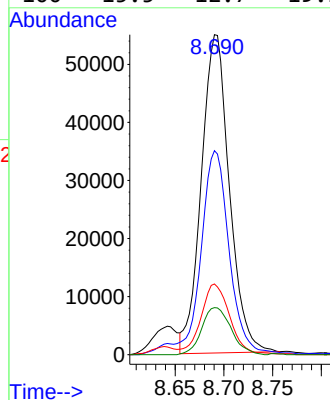
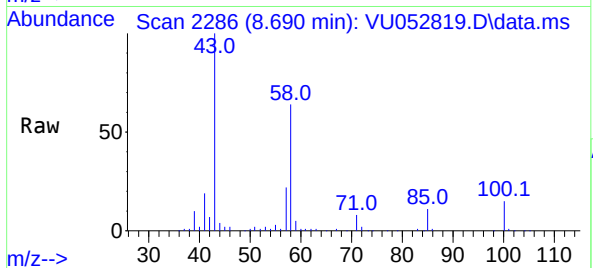
Ion Ratio Lower Upper

43 100

58 63.5 48.0 72.0

57 22.8 16.8 25.2

100 15.5 12.7 19.1



#50

1,2-Dibromoethane

Concen: 39.076 ug/L

RT: 8.918 min Scan# 2357

Delta R.T. -0.000 min

Lab File: VU052819.D

Acq: 26 Jan 2023 16:30

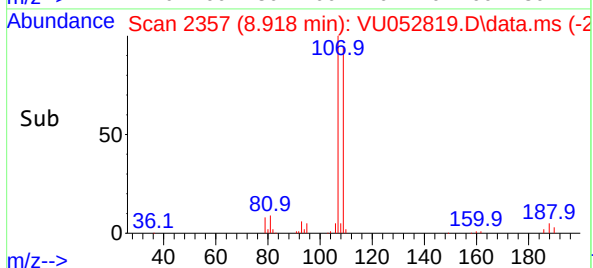
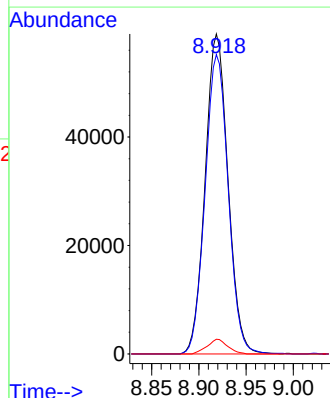
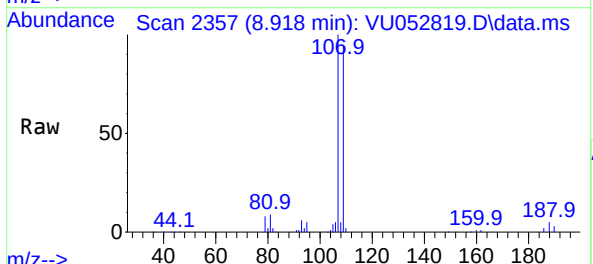
Tgt Ion:107 Resp: 99230

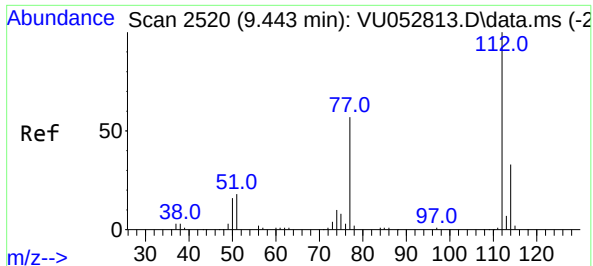
Ion Ratio Lower Upper

107 100

109 93.5 65.5 121.6

188 4.6 3.2 4.8

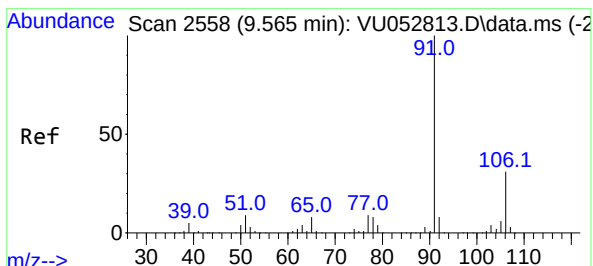
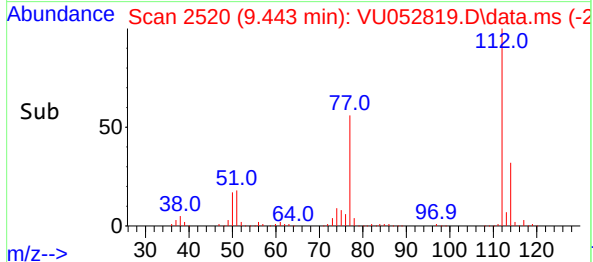
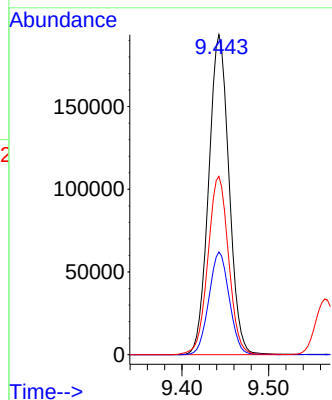
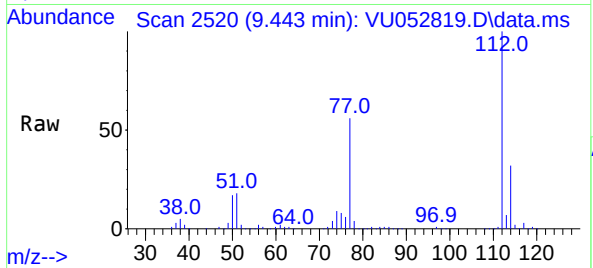




#51
Chlorobenzene
Concen: 47.703 ug/L
RT: 9.443 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

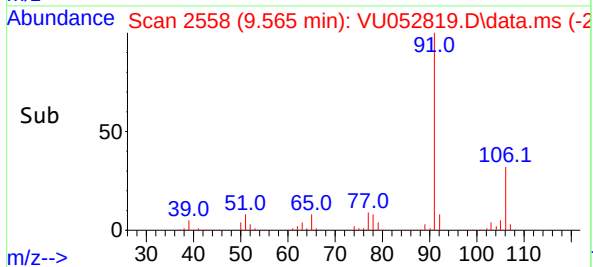
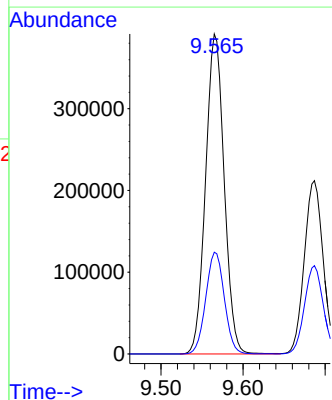
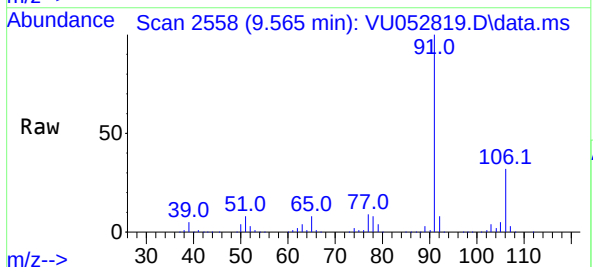
Instrument :
MSVOA_U
ClientSampleId :
A44Q4

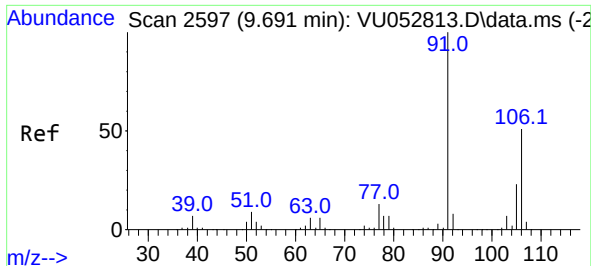
Tgt Ion:112 Resp: 315659
Ion Ratio Lower Upper
112 100
114 32.1 22.8 42.4
77 55.7 45.9 68.9



#52
Ethylbenzene
Concen: 59.992 ug/L
RT: 9.565 min Scan# 2558
Delta R.T. -0.000 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

Tgt Ion: 91 Resp: 616631
Ion Ratio Lower Upper
91 100
106 31.8 22.0 40.8

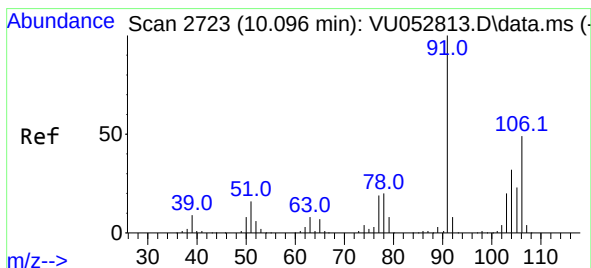
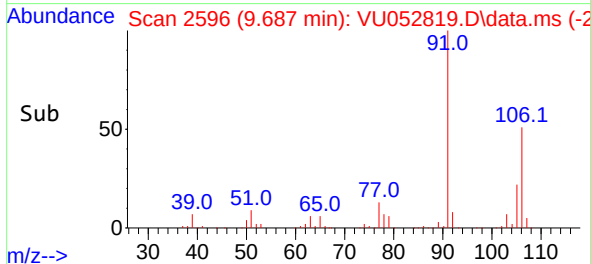
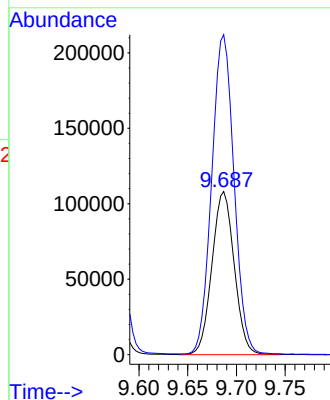
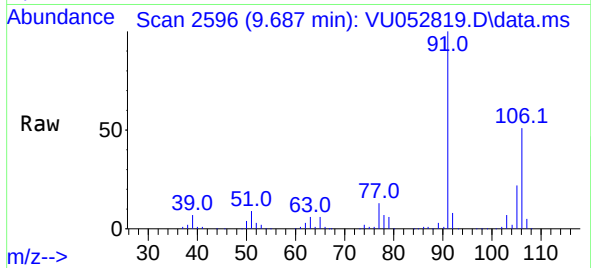




#53
m,p-Xylene
Concen: 41.302 ug/L
RT: 9.687 min Scan# 2596
Delta R.T. -0.004 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

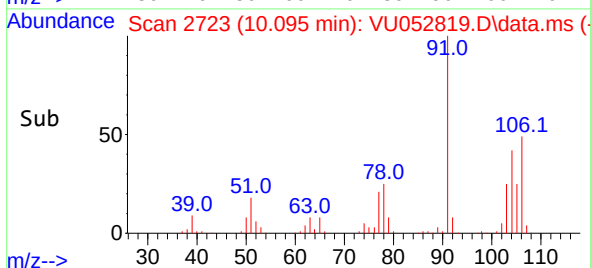
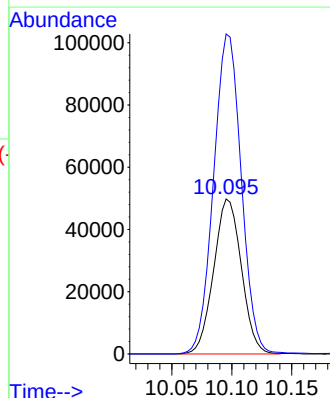
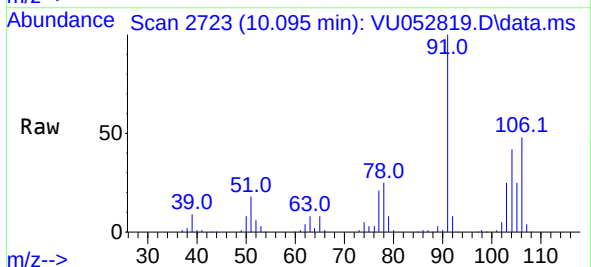
Instrument :
MSVOA_U
ClientSampleId :
A44Q4

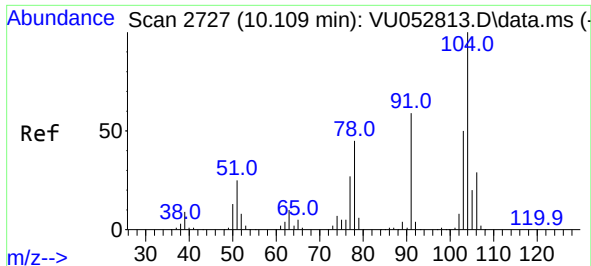
Tgt Ion:106 Resp: 171864
Ion Ratio Lower Upper
106 100
91 196.1 137.4 255.2



#54
o-xylene
Concen: 20.114 ug/L
RT: 10.095 min Scan# 2723
Delta R.T. -0.000 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

Tgt Ion:106 Resp: 79900
Ion Ratio Lower Upper
106 100
91 206.4 143.4 266.2

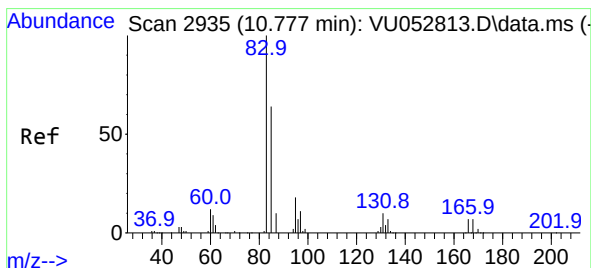
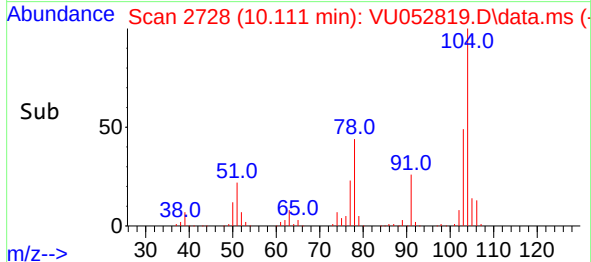
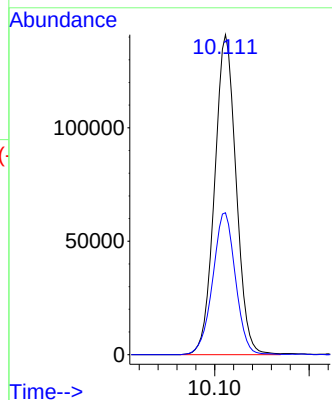
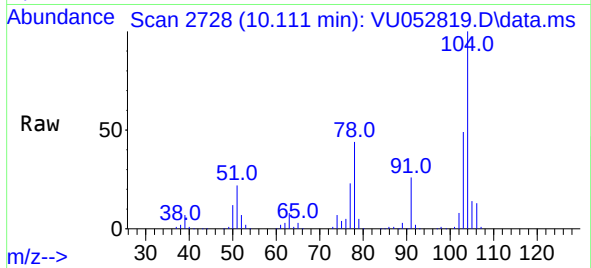




#55
Styrene
Concen: 32.727 ug/L
RT: 10.111 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

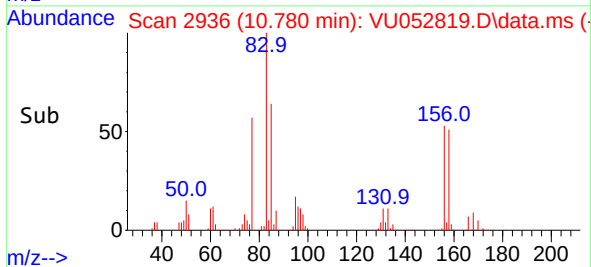
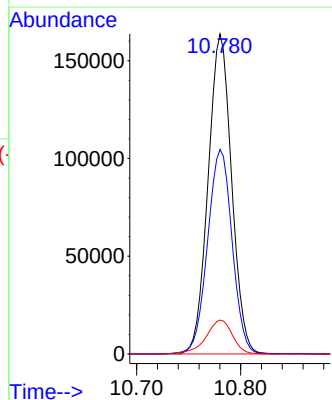
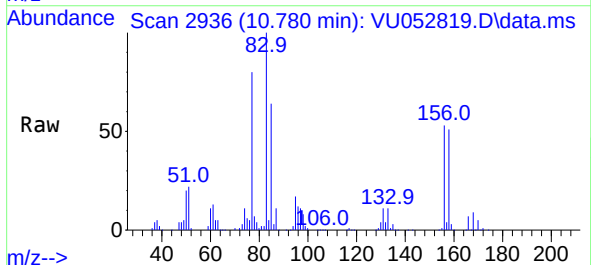
Instrument :
MSVOA_U
ClientSampleId :
A44Q4

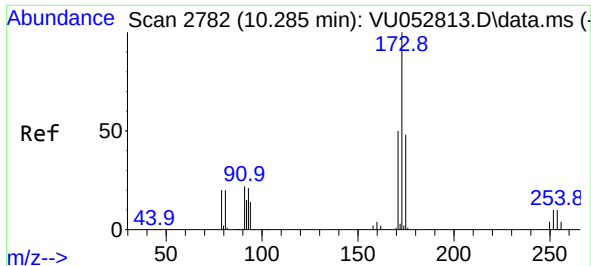
Tgt Ion:104 Resp: 223087
Ion Ratio Lower Upper
104 100
78 44.4 31.9 59.2



#57
1,1,2,2-Tetrachloroethane
Concen: 67.213 ug/L
RT: 10.780 min Scan# 2936
Delta R.T. 0.003 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

Tgt Ion: 83 Resp: 256643
Ion Ratio Lower Upper
83 100
85 63.9 45.0 83.6
131 10.6 8.6 12.8

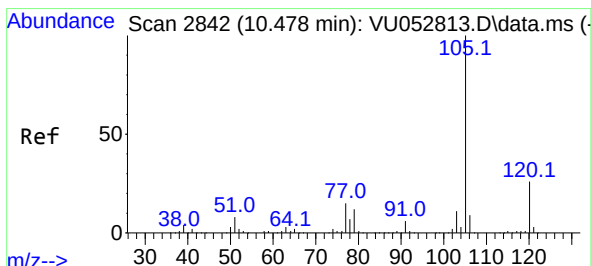
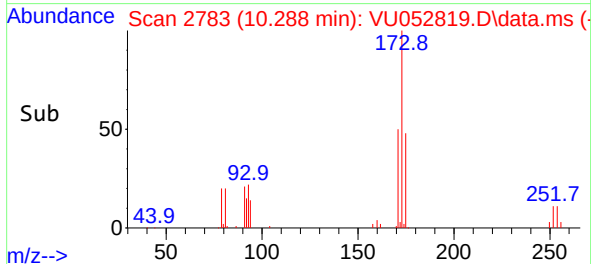
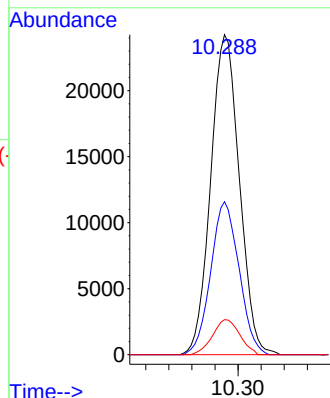
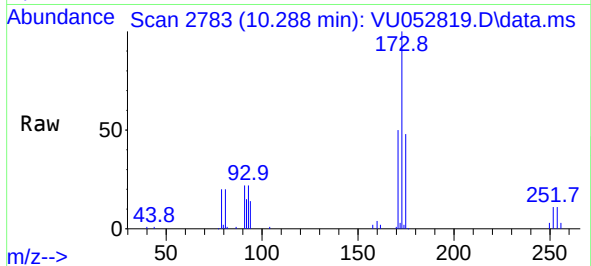




#59
Bromoform
Concen: 20.002 ug/L
RT: 10.288 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

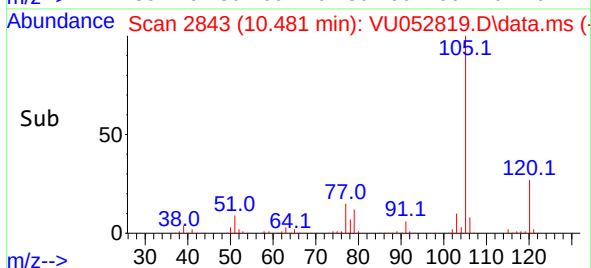
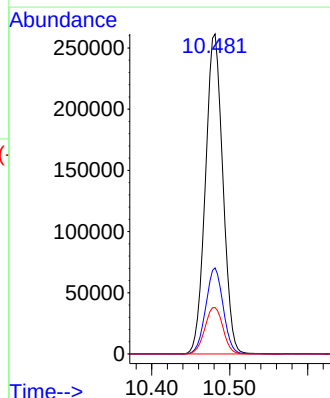
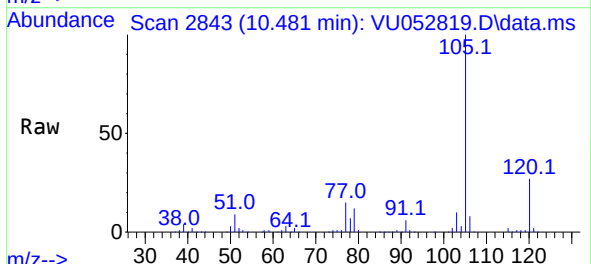
Instrument :
MSVOA_U
ClientSampleId :
A44Q4

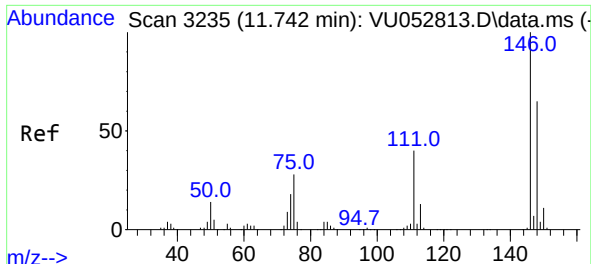
Tgt Ion:173 Resp: 41721
Ion Ratio Lower Upper
173 100
175 47.3 37.7 56.5
254 10.4 8.3 12.5



#61
Isopropylbenzene
Concen: 41.247 ug/L
RT: 10.481 min Scan# 2843
Delta R.T. 0.003 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

Tgt Ion:105 Resp: 405496
Ion Ratio Lower Upper
105 100
120 26.9 21.4 32.2
77 15.2 12.2 18.2

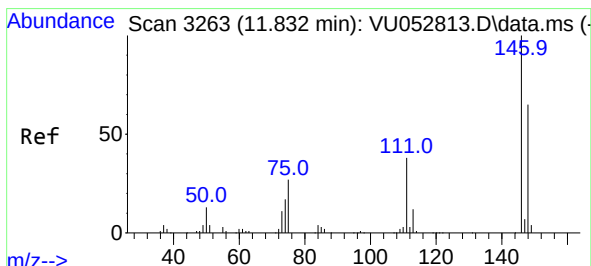
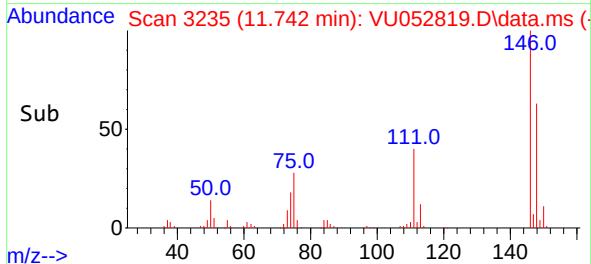
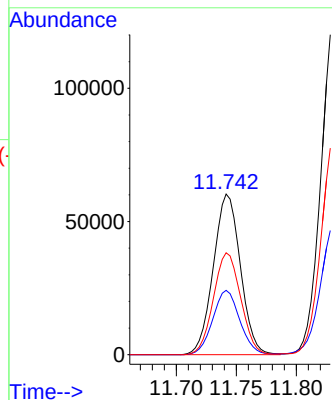
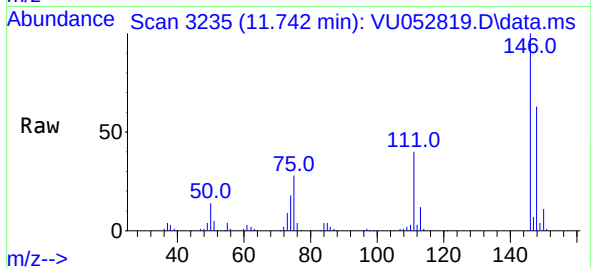




#64
1,3-Dichlorobenzene
Concen: 19.092 ug/L
RT: 11.742 min Scan# 311
Delta R.T. -0.000 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

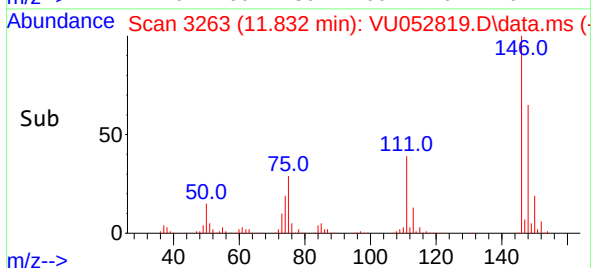
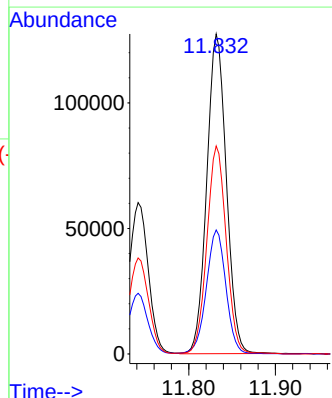
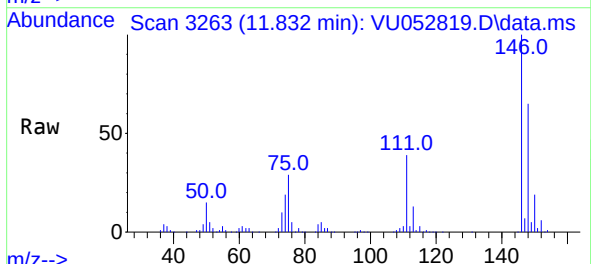
Instrument :
MSVOA_U
ClientSampleId :
A44Q4

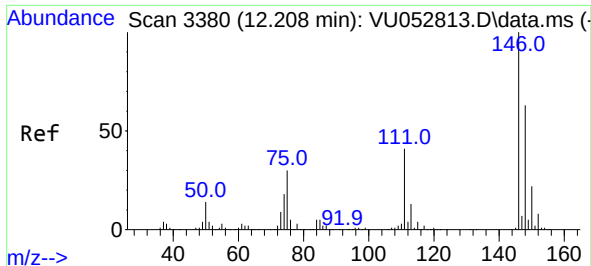
Tgt Ion:146 Resp: 94697
Ion Ratio Lower Upper
146 100
111 40.0 27.8 51.6
148 63.4 45.5 84.5



#65
1,4-Dichlorobenzene
Concen: 38.926 ug/L
RT: 11.832 min Scan# 3263
Delta R.T. -0.000 min
Lab File: VU052819.D
Acq: 26 Jan 2023 16:30

Tgt Ion:146 Resp: 199874
Ion Ratio Lower Upper
146 100
111 38.7 26.7 49.7
148 65.0 45.6 84.6





#67

1,2-Dichlorobenzene

Concen: 62.417 ug/L

RT: 12.208 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU052819.D

Acq: 26 Jan 2023 16:30

Instrument :

MSVOA_U

ClientSampleId :

A44Q4

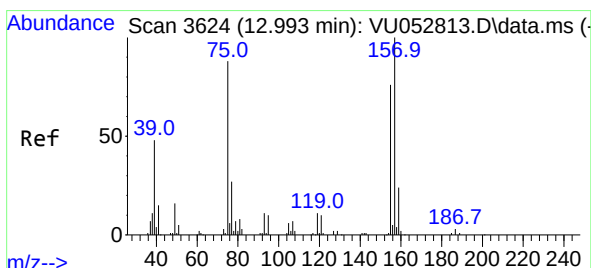
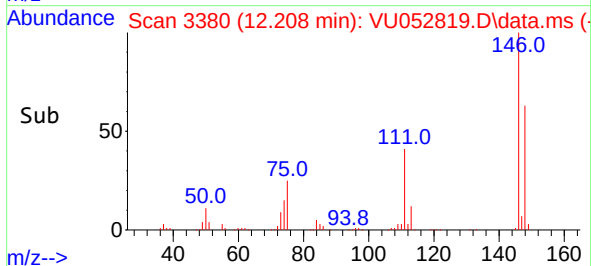
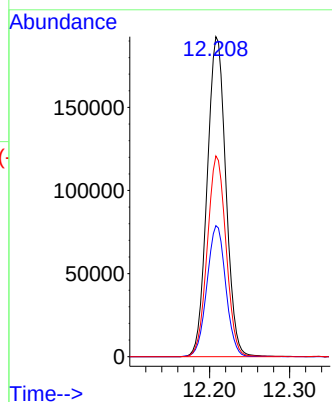
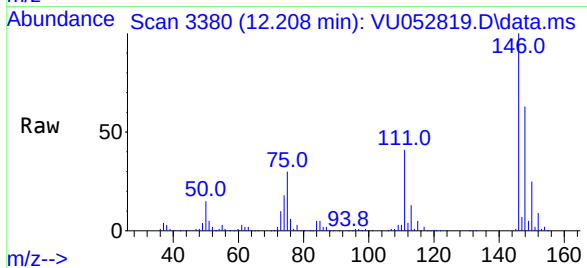
Tgt Ion:146 Resp: 313134

Ion Ratio Lower Upper

146 100

111 41.0 33.2 49.8

148 62.7 50.2 75.4



#68

1,2-Dibromo-3-chloropropane

Concen: 73.027 ug/L

RT: 12.992 min Scan# 3624

Delta R.T. -0.000 min

Lab File: VU052819.D

Acq: 26 Jan 2023 16:30

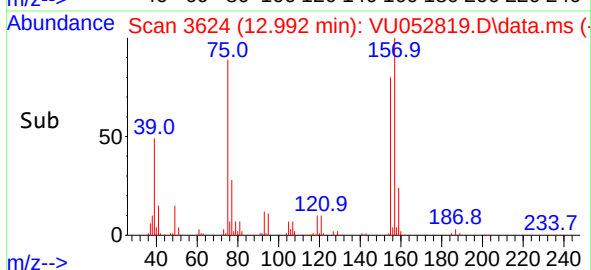
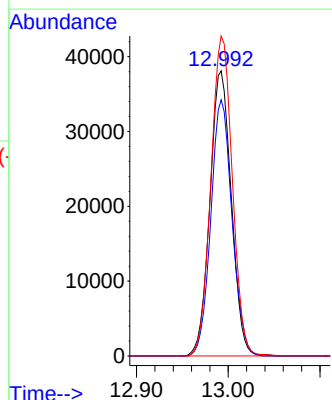
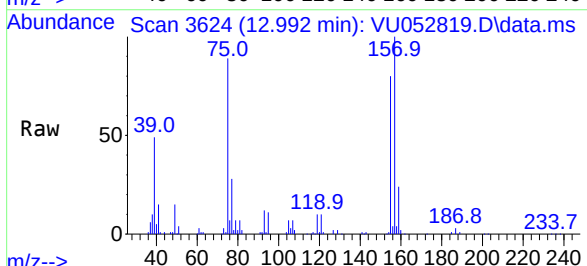
Tgt Ion: 75 Resp: 61806

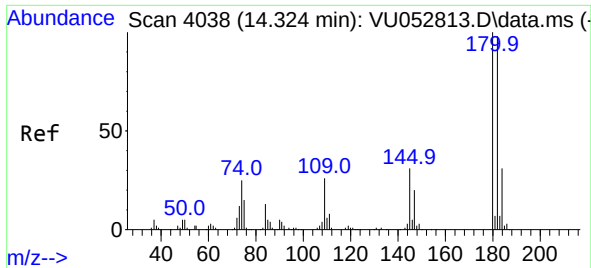
Ion Ratio Lower Upper

75 100

155 89.9 69.2 103.8

157 112.2 91.2 136.8





#72

1,2,3-Trichlorobenzene

Concen: 35.241 ug/L

RT: 14.327 min Scan# 40

Delta R.T. 0.003 min

Lab File: VU052819.D

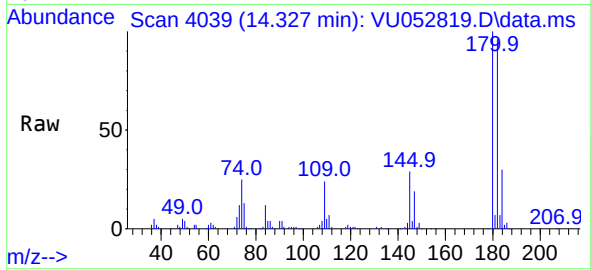
Acq: 26 Jan 2023 16:30

Instrument :

MSVOA_U

ClientSampleId :

A44Q4



Tgt Ion:180 Resp: 114656

Ion Ratio Lower Upper

180 100

182 94.8 77.5 116.3

145 30.3 24.2 36.4

